

Data Management, Analytics & Reporting Technologies	1-Jan-23					Roadmap Classifications and Definitions are at this link - https://www.vita.virginia.gov/media/vitavirginiagov/it-governance/ea/pdf/COV_Technology_Roadmap_Definitions_v8_September-2021.pdf								
Vendor	Product	Version	Release	Current Classification	N, N-1	General Availability	Projected	Approved	Divest: Plan	Divest: Execution	Prohibited	Vendor End of Support	Reference	Notes
Data Management Platform as a Service (PaaS)														
Microsoft Dataverse	Power Platform	Current		Approved	N									Dataverse lets you securely store and manage data that's used by business applications. Data within Dataverse is stored within a set of tables. A table is a set of rows (formerly referred to as records) and columns (formerly referred to as fields/attributes). Each column in the table is designed to store a certain type of data, for example, name, age, salary, and so on. Dataverse includes a base set of standard tables that cover typical scenarios, but you can also create custom tables specific to your organization and populate them with data by using Power Query. App makers can then use Power Apps to build rich applications that use this data. https://learn.microsoft.com/en-us/power-apps/maker/data-platform/data-platform-intro
Data Management tools														
Microsoft SQL Server	SQL Server	2022		Projected			11/1/2025						https://support.microsoft.com/en-us/lifecycle/search?alpha=sql%20server https://blogs.msdn.microsoft.com/sqlreleaseservices/announcing-the-modern-servicing-model-for-sql-server/	EA Direction is to continue upgrading to the newest long-term release. Up to and including SQL Server 2016, RTM and any subsequent SPs establish a new product baseline. For each new baseline, CUs are provided for roughly 12 months after the next SP releases, or at the end of the mainstream phase of product lifecycle, whichever comes first. For the entire product lifecycle, Microsoft releases General Distribution Releases (GDRs) when needed, containing only security related fixes. Release pattern: 2 years
		2022		Emerging		11/16/2022		11/16/2023					https://support.microsoft.com/en-us/lifecycle/search?alpha=sql%20server https://blogs.msdn.microsoft.com/sqlreleaseservices/announcing-the-modern-servicing-model-for-sql-server/	
		2019		Approved	N	11/4/2019		11/4/2020	1/14/2025	1/8/2027	1/8/2028	1/8/2030	https://learn.microsoft.com/en-us/lifecycle/products/sql-server-2019	
		2017		Skipped										
		2016		Divest: Plan	N-1	6/1/2016		6/1/2017	7/14/2022	7/14/2023	7/14/2024	7/14/2026	https://support.microsoft.com/en-us/help/17140/lifecycle-faq-general-policy-questions	
		2014		Prohibited		4/1/2014			10/2/2019	11/4/2020	7/9/2022	7/9/2024		
		2012		End of Support							7/12/2020	7/12/2022		
Microsoft Azure SQL DB	Azure SQL DB			Approved	N									Versioning does not apply, as this is Database as a Service (DBaaS)
IBM - DB2	DB2 for z/OS	12.1		Approved	N	10/21/2016		10/21/2017				TBD	https://www.ibm.com/support/lifecycle/index.html#/	
		11.1		End of Support		10/25/2013				9/30/2018	9/30/2019	9/30/2020	https://www.ibm.com/support/pages/standar	

		10.1		End of Support							9/20/2016	9/20/2017	d-and-enhanced-ibm-software-support-lifecycle-policies	
	DB2 for Linux, Unix, and Windows	11.5		Approved	N	6/25/2019		6/25/2020				TBD	https://www.ibm.com/support/pages/db2-distributed-end-support-eos-dates	11.1: End of Support 4/30/22; extended support thru 4/30/22. 11.5 EOS date not provided, minimum 3 years after EOS
		11.1		Prohibited		6/15/2016		6/15/2017	10/30/2020	4/30/2021	4/30/2022	4/30/2025		
		10.5		End of Support								4/30/2020		
		10.1		End of Support								9/30/2017		
Oracle	Oracle Database	21c		Skipped		12/1/2020						4/30/2024 (no ES)	https://support.oracle.com/knowledge/Oracle%20Database%20Products/742060_1.html	Innovation Release - NOT RECOMMENDED Error Correction / Patching is available until June 30, 2023; 21c is not eligible for Extended Support (ES).
		20c		Skipped									https://support.oracle.com/knowledge/Oracle%20Database%20Products/742060_1.html ; For 19c Long-Term Release, Error Correction / Patching is available through April 30, 2027 with paid ES. Premier Support (PS) ends April 30, 2024, one year of free Extended Support (ES) will be in effect from May 1, 2024 until April 30, 2025. Fees will be required beginning May 01, 2025 through April 30, 2027 https://support.oracle.com/knowledge/Oracle%20Database%20Products/742060_1.html ; For 11.2.04, ES fees or a ULA was required beginning Jan 1, 2019 through Dec 31, 2020. At the end of ES, Market Driven Support (MDS) will be available for two additional years. See https://www.oracle.com/a/ocom/docs/ds-mds-database-11g-r2.pdf	There are two types of Oracle Database releases: Long Term Release and Innovation Release. Long Term Release: Oracle Database Long Term Releases are ideal for use cases that benefit from less frequent upgrades to newer releases. Long Term Releases offer the highest level of stability and the longest length of error correction support. These releases have 5 years of Premier Support followed by 3 years of Extended Support. When combined with Extended Support, customers typically have almost 4 years to upgrade from one Long Term Release to the next Long Term Release. Innovation Release: In between Oracle Database Long Term Releases, Oracle delivers Oracle Database Innovation Releases that include many enhancements and new capabilities which will also be included in the next Long Term Release. Innovation Releases are designed to enable customers to continuously use leading-edge technologies to rapidly develop or deploy new applications or augment existing applications. Support for Innovation Releases includes at least 2 years of Premier Support, but there is no Extended Support. Production workloads can be deployed on Innovation Releases if upgrading to the next database release within one year after the next database release ships is factored into the deployment plan.
		19c Long-Term Release	1	Approved	N	4/1/2019		10/1/2019	10/31/2023	4/30/2024	10/31/2024	4/30/2025 (no ES/ULA); 4/30/2027 w/ES/ULA		
		18c Innovation Release	3	End of Support		7/1/2018		1/1/2019			12/30/2020	6/30/2021 (no ES)		
		12	2	End of Support		3/1/2017					9/30/2021	3/31/2022 (Limited Error correction from 12/1/2022-3/31/2022)		
			1	End of Support		7/1/2013						7/31/2019		
		11	2 Terminal Release	End of Support								7/1/2018; Oracle has a global Extended Support Uplift Fee waiver in place for Oracle Database 12.1 and 11.2 for Oracle E-Business Suite		
	mySQL Database	9.x		Projected				10/28/2024					https://dev.mysql.com/doc/relnotes/mysql/8.0/en/news-8-0-31.html	Release pattern: 3 months No release date for is available for mySQL 9.0 Oracle lifetime support does not provide security patching and has 3 options: MySQL Premier Support - 5 years, starting at GA, of Premier Support that includes MySQL maintenance releases, updates, fixes (error correction), and security alerts
		8.0.31		Emerging		10/11/2022			1/11/2023	10/11/2027	10/11/2028	10/11/2029	10/11/2030	
		8.0.30		Approved	N	7/26/2022			10/26/2022	7/26/2027	7/26/2028	7/26/2029	7/26/2030	

		8.0.29		Approved	N - 1	4/26/2022		7/26/2022	4/26/2027	4/26/2028	4/26/2029	4/26/2030		and security alerts. MySQL Extended Support - 3 years of extra support including error correction, beyond the Premier Support period, for specific MySQL releases. Includes MySQL maintenance releases, updates, bug fixes (error correction), and security alerts. MySQL Sustaining Support - Any time, beyond the Premier Support period. Support only. No new releases, no new fixes (no error correction for new issues), no new updates. Only pre-existing updates, fixes and alerts are available.
		5.7.40		Prohibited		10/21/2015		4/21/2016	10/21/2021	4/21/2022	10/21/2022	10/21/2023	https://dev.mysql.com/doc/relnotes/mysql/5.7/en/	
		5.6		End of Support		2/5/2013					2/5/2020	2/5/2021	https://dev.mysql.com/doc/relnotes/mysql/5.6/en/	
Data ingestion & pipelines	Apache Airflow	2	2.4.3	Approved	N	12/17/2020		11/14/2022				TBD	https://airflow.apache.org/docs/apache-airflow/stable/installation/supported-versions.html	support continues for approximately 3 years after release which was GA in December 2020
Mongo DB	Mongo DB	6.00		Approved	N	7/19/2022							https://www.mongodb.com/try/download/enterprise	current version is 6.03; patches are released monthly
	Atlas - Mongo DBaaS													DB as a service
Data Analytics and Reporting Tools														
Esri	ArcGIS Server	11.0		Skipped		7/22/2022							https://enterprise.arcgis.com/en/server/latest/get-started/windows/what-s-new-in-arcgis-for-server.htm	EA Direction is to continue upgrading to the newest long-term release. https://enterprise.arcgis.com/en/web-appbuilder/latest/create-apps/about-versions.htm
		10.9.1		Approved	N	11/18/2021		1/18/2022	12/1/2023	12/1/2024	12/1/2025	12/1/2027		ArcGIS Enterprise 10.9.1 on Windows and Linux is a long-term support release. https://support.esri.com/en/Products/Enterprise/arcgis-server/ArcGIS-Server/10-7#product-support
		10.8.1		Approved	N-1	7/28/2020		1/31/2021	7/1/2023	7/1/2024	7/1/2025	7/1/2026	https://support.esri.com/en/Products/Enterprise/arcgis-server/ArcGIS-Server/10-8-1#product-support http://support.esri.com/other-resources/product-life-cycle	ArcGIS Enterprise 10.8.1 is a long-term support release. NOTE: Beginning with ArcGIS Enterprise 10.7, versions of ArcGIS Enterprise will either be designated as short-term support releases or long-term support releases. Long-term support releases will receive a total of 6 years of support. https://support.esri.com/en/Products/Enterprise/arcgis-server/ArcGIS-Server/10-8-1#product-support
		10.8		Skipped		2/20/2020								10.8 is a short term release.
		10.7.1		Prohibited		6/27/2019		12/27/2019	11/18/2021	1/18/2022	6/1/2025		https://www.esri.com/arcgis-blog/products/arcgis-enterprise/announcements/update-to-arcgis-enterprise-product-lifecycle/	ArcGIS Enterprise 10.7.1 will be a long-term support release. A long-term support release mirrors the product lifecycle as it has been defined since ArcGIS 10.2, which includes a total of 6 years of support

		10.7		Skipped		3/21/2018								ArcGIS Enterprise 10.7 is a short-term support release.
		10.6.X		Divest: Plan		1/17/2018			9/1/2020	1/1/2022	2/1/2023	1/1/2024		
		10.5x andearlier		Prohibited		12/15/2016					10/27/2019	12/1/2022		
SAP	BusinessObjects Business Intelligence			Projected										
		BI v4.4											BI v4.4 GA Check - Click Here	EA Direction is to continue upgrading to the newest release. https://www.businessintelligencesoftware.co/sap-businessobjects-bi-4-4.html Information on this site indicates that "...SAP Business Objects BI 4.4 is due to be released in Q1 2022 according to inside sources at SAP."
		BI v4.3		Approved	N	6/12/2020		9/30/2020	12/31/2023	12/31/2024	12/31/2025	12/31/2027	https://blogs.sap.com/2020/06/16/sap-businessobjects-bi-4.3-now-available/ https://help.sap.com/doc/47c6f95556e041014910aba7db0e91070/4.3/en-US/sbo43_whats_new_en.pdf https://go.support.sap.com/roadmapviewer/ https://blogs.sap.com/2020/06/13/sap-businessobjects-bi-4.3-sap-bi-4.3-released/	Product availability matrix is behind another type of login other than the initial one so unable to obtain via SAP's website. You are signed in with a P-user ID. Visitors with an S-user ID will benefit from more tools and enhanced functionality. If you are an SAP customer, contact a user administrator in your company to request such an ID. Your SAP Local Support Center can help you identify your administrators. If you already own an S-user ID, log out now and log in with your S-user ID. https://launchpad.support.sap.com/assets/shell/public-user.htm https://apps.support.sap.com/sap/support/pam - requires credentials to access. When access using credentials then says not authorized to view this resource and that I need another login. https://support.sap.com/release-upgrade-maintenance/release-strategy/release/on-premise/rules.html
		BI v4.2		Divest: Execution	N-1	3/8/2016			9/1/2020	12/31/2022	12/31/2023	12/31/2025	https://apps.support.sap.com https://wiki.scn.sap.com/wiki/display/BOBI/SAP+Analytics https://360suite.io/blog/sap-bi-end-of-life-stages/ http://evtechnologies.com/mainstream-support-ending-2018/	Product Availability Matrix: The Product Availability Matrix (PAM) is where you can find details about SAP software product versions, including availability and end of maintenance dates, upgrade paths, and technical release information (database platforms, Java platforms, operating systems, etc.). Mainstream support is 7 years; two years of additional priority-one support. Requires a login credential I don't seem to have as of September-2020 and is unnecessarily difficult to access for a product sold to the public. https://blogs.sap.com/2018/07/30/sap-businessobjects-business-intelligence-suite-4.2-sp06-sp6-released/ https://www.sap.com/products/roadmaps.html https://en.wikipedia.org/wiki/BusinessObjects
		BI v4.1 and earlier		Vendor End of Support		8/30/2013					1/1/2019	1/1/2021	SAP-BI-End-of-Life-Stages_360suite-io-blog_2019.pdf	https://www.businessintelligencesoftware.co/sap-business-objects-versions.html
SAS	SAS (Statistical Analysis System)		m8	Projected			6/30/2022						https://en.wikipedia.org/wiki/SAS_(software)	EA Direction is to continue upgrading to the newest release.

			9.4	m7	Approved	N	8/31/2020		2/1/2021	6/1/2023	6/1/2024	12/31/2024	8/31/2025	https://support.sas.com/software/maintenance/index.html https://documentation.sas.com/?cdcId=pgmsascdc&cdcVersion=9.4_3.5&docsetId=whatsdiff&docsetTarget=titlepage.htm&locale=en https://documentation.sas.com/api/collections/pgmsascdc/9.4_3.5/docsets/whatsdiff/content/whatsdiff.pdf?locale=en#nameddest=titlepage	As of January 1, 2020 , SAS has moved to the following, two-level support policy that is based on the General Availability date for a product: Standard Support: This support level is based on a product's General Availability release date, and it has a time limit of five years from that date. Limited Support: This support level is provided for products that move outside of the five-year Standard Support time frame. Limited Support lasts until the product is retired, and it includes self-help resources only for previously identified issues. https://support.sas.com/en/technical-support/services-policies.html#non-current
				m6	Divest: Execution		11/20/2018		5/20/2019	11/20/2021	5/20/2022	12/31/2022	2/28/2025	https://support.sas.com/en/documentation/system-requirements.html https://blogs.sas.com/content/iml/2013/08/02/how-old-is-your-version-of-sas-release-dates-for-sas-software.html https://support.sas.com/en/technical-support/services-policies.html	SAS 9 and SAS Viya are two unique platforms built for different use cases . Because of the advancement in technology and infrastructure since SAS 9 was released, the technology of SAS Viya is very different from SAS 9. SAS Viya is an open, unified, and powerful platform, ready for native Cloud deployment. Cloud Analytic Services (CAS) In-Memory Engine: This engine is the power behind SAS Viya. In SAS Viya, the SAS High-Performance Architecture and SAS LASR Analytic Server from SAS 9 combine to form a third-generation high-performance analytics engine. https://www.sas.com/content/dam/SAS/support/en/sas-global-forum-proceedings/2019/3503-2019.pdf https://www.sas.com/content/dam/SAS/support/en/technical-papers/sas9-4-sas-viya-functional-comparison.pdf
				m5	Prohibited		9/19/2017				3/19/2021	9/19/2021	2/28/2025	https://documentation.sas.com/api/docsets/whatsnew/9.4_3.5/content/whatsnew.pdf?locale=en#nameddest=titlepage	SAS new Standard support is 5 years from GA date. There is a 1 year grace period for 9.2 (starting 1/2020). There is a 3 year grace period for 9.3. 9.4 versions have a 5 year grace period. Note: Only m3 and higher is supported on Windows 10. https://support.sas.com/en/technical-support/services-policies.html#non-current
				m4	End of Support							11/16/2020	11/16/2021		
IBM	SPSS Statistics Server (Originally Statistical Package for the Social Sciences by SPSS, Inc.)	29.0x		Approved	N	9/13/2022		12/13/2022	9/13/2024	9/13/2026	9/13/2027	https://www.ibm.com/support/pages/software-lifecycle-product-list	Lifecycle policy: Enhanced (E): minimum 5 years support with extension of 3 years.		
		28.0x		Approved	N-1	5/25/2021		11/25/2021	6/25/2023	12/25/2023	5/25/2026	https://www.ibm.com/support/pages/sites/default/files/software-lifecycle/ibm_software_lifecycle_product_list.csv			
		27.0x		Divest: Execution		6/16/2020		12/16/2020	7/1/2022	1/1/2023	6/30/2025	https://www.ibm.com/support/pages/standard-and-enhanced-ibm-software-support-lifecycle-policies			
		26.0x		Prohibited		4/9/2019		10/9/2019	5/25/2021	11/25/2021	8/31/2024	https://www.ibm.com/support/pages/ibm-software-support-continuous-delivery-lifecycle-policy http://www-01.ibm.com/software/support/lifecycle/	IBM has aggressively moved many of the products in their software portfolio to Enhanced ‘5+3’ support – a minimum of five full years of standard support from the date the product release was made generally available by IBM, with the option to get support extensions for at least an additional three years following a product’s EOS date for an extra charge set by IBM. Current pattern for SPSS is 5 to 6 years of support.		

		25.0x		End of Support		8/8/2017					8/1/2020	8/1/2022	https://www-01.ibm.com/software/support/lifecycleapp/PLCSearch.wss?q=spss&ibm-search=Search https://www-01.ibm.com/software/support/lifecycleapp/PLCDetail.wss?synkey=T171443D80311R12&from=spf	IBM Software Lifecycle: Download a full copy of the IBM Software Lifecycle product list in CSV format. https://www.ibm.com/support/pages/software-lifecycle-product-list
		24.0x or earlier		End of Support		3/15/2016					3/1/2020	3/1/2021	https://en.wikipedia.org/wiki/SPSS	
Splunk	Enterprise	SaaS	Current	Approved	N								https://www.splunk.com/en_us/legal/splunk-software-support-policy.html	Each minor version of these Products is Supported for twenty-four (24) months from the release of that minor version.
Tableau	Desktop	Current		Approved	N	9/22/2021							https://www.tableau.com/support/releases	The most current version is Approved version; releases occur every month
	Server	Current		Approved	N	9/22/2021							https://www.tableau.com/support/releases	The most current version is Approved version; releases occur every month
Microstrategy	Microstrategy	2021x		Approved	N	12/18/2020 12/12/2019	6/16/2021	6/30/2023 6/12/2021	12/31/2023 12/31/2021	6/30/2024 6/30/2022	12/31/2024 12/31/2022		https://www.microstrategy.com/en/support/support-lifecycle#:~:text=Platform%20Releases%20will%20be%20delivered,as%20MicroStrategy%20continues%20to%20innovate.w.microstrategy.com/en/support/support-lifecycle	Allow 6 months for Prohibited; Divest Plabn and Divest Execution; Allow 6 month for Emerging to approved
Oracle reporting (OBIEE)	(replaced with Oracle Analytics Cloud and Oracle Analytics Server)													End of life support for OBIEE 12c is January 2023.
	OAC													EA Direction is to continue upgrading to the newest release.
	OAS													Current OBIEE users will be 'auto-licensed' with OAS
Crystal Reports	SAP Crystal Reports													Requires additional research
Google	Google Analytics	SaaS	Current	Approved									https://support.google.com/analytics/answer/9164320?hl=en#091721&zippy=%2C releases	web-based analytics tool; includes App + Web properties
R Core Team (open source)	R		4.2.2	Emerging		10/31/2022	1/31/2023						https://www.r-project.org/ ; https://en.wikipedia.org/wiki/R_(programming_language)	Free Software Foundation GNU General Public License
			4.1.3	Approved	N	3/10/2022	6/10/2022							
			All previous versions	Prohibited										
Informatica	Intelligent Cloud	34.2	Current	Approved	N								https://www.informatica.com/content/dam/informatica-com/en/docs/informatica-cloud-description-schedule.pdf	SaaS; need login to verify product support

Key	Description (add definitions, specifically timelines)													
	Emerging													
	Projected													
	Approved													
	Divest: Plan													
	Divest: Execute													
	Prohibited													
	Skipped													
	End of Support													